

Central Carolina Soil Consulting, PLLC

1900 South Main Street, Suite 110, Wake Forest, NC 27587 Office Number: 919-569-6704

Acknowledgment of Subsurface	wastewater evaluation and septic design by Central
Carolina Soil Consulting, PLLC.	for180 Pondhurst Lane, Lot 5 (PIN: 0634-81-2180)
for issuance of an IP and CA.	

For Improvement Permit (IP) issuance:

"The LSS/LG evaluation(s) attached to this application is to be used to issue an Improvement Permit in accordance with G.S. 130A-335(a2) and (a3)."

For Construction Authorization (CA) issuance:

"The plans or evaluations attached to this application are to be used to issue a Construction Authorization in accordance with G.S. 130A-335(a2), (a5) and (a6)."

The LSS evaluation attached to this application was used to produce and design a subsurface wastewater septic system for permitting to obtain an IP and CA in accordance G.S. 130A-335(a2), (a3), (a5) and (a6).

Owner:	Elm Street Builders, LLC		
Owner's representative:	Christopher Weir		
·	12/7/2023		
Date:	12/7/2023		

Permit #:		
	_	



ROY COOPER • Governor

KODY H. KINSLEY • Secretary

MARK BENTON • Deputy Secretary for Health

SUSAN KANSAGRA • Assistant Secretary for Public Health

Division of Public Health

Submittal Includes:	(a2) Improvement Permit	(a2) Construction Authorization	Fee \$
	IMPROVEM	IENT PERMIT FOR G.S. 130A-33	35(a2)
County:	Harnett		
		0634-81-2180	
Issued To:		Elm Street Builders, LLC	
Property Location:	18	0 Pondhurst Lane, Fuquay-Varina	, NC 27526
Subdivision (if applicat	ple)Pondhur	st Lot #:5	Block: Section:
LSS Report Provided: '			
If yes, name and licens	e number of LSS:	Jason Hall, NC LS	SS #1248
New ✓	Expansion	System Relocation	Change of Use
Proposed Structure:		Single Family, 3-Bedroor	n
Number of bedrooms:	3 Number of Occupants:	≤6 Other:	
Design Wastewater St	rength: 🗹 domestic	high strength indust	rial process
Proposed Design Daily	Flow:360GPD	Proposed LTAR (Initial):0.25	Proposed LTAR (Repair):0.25
Proposed Wastewater	System Type*: IIIB, pressure n	<u>nanifold (accepted)</u> (Initial) Pump R	equired: 🗹 Yes 🗌 No 🔲 May be required
Proposed Wastewater	System Type*: IIIB, pressure	manifold (PPBPS) (Repair) Pump Re	equired: 🗹 Yes 🗌 No 📗 May be required
*Please include system	classification for proposed wastew	vater system types in accordance with 15A	A NCAC 18A .1961 Table V(a)
Saprolite System (initia	ıl): ☐ Yes ✓ No Saprolit	e System (repair): 🗌 Yes 🗸 No	
Fill System (Initial):	Yes 🗸 No If yes, specify: 🗌 Ne	w 🔲 Existing (when adding more than	n 6 inches of fill to system area provide a fill plan
			n 6 inches of fill to system area provide a fill plan
Usable Soil Depth (Init	ial): Usable S	Soil Depth (Repair):41"	[‡] Measured on the downhill side of the trench
Max. Trench Depth (In	itial)‡: 15" Max. Tre	ench Depth (Repair)‡:24"	$^{\sharp}$ Measured on the downhill side of the trench
Artificial Drainage Req	uired: Yes 🗸 No If yes, pleas	se specify details:	
Type of Water Supply:	Private well Public well	Shared well Municipal Supply	Spring Other:
Drainfield location me	ets requirements of Rule .1945: Ye	s 🗸 No 🗌 Drainfield location meet	s requirements of Rule .1950: Yes 🗸 No 🗌
Permit valid for: 🗸 Fiv	ve years [site plan submitted pursua	ant to GS 130A-334(13a)] 🔲 No expirati	ion [plat submitted pursuant to GS 130A-334(7a)
Permit conditions:			
5" of approved additional c	over material required		
		SOIL	112
Linemand Call Calcart	Drint Namo: Jason Hall	· //SY ONI M	
Licensed Soil Scientist	FIIII Name.	W ASTATE X	12/07/2023
Licensed Soil Scientist	The LSS evaluation is being submit	1181 667	Bate: 12/01/2023

NC DEPARTMENT OF HEALTH AND HUMAN SERVICES DIVISION OF PUBLIC HEALTH

*See attached site ske

LOCATION: 5605 Six Forks Road, Building 3, Raleigh, NC 27609 MAILING ADDRESS: 1632 Mail Service Center, Raleigh, NC 27699-163

www.ncdhhs.gov • Tel: 919-707-3854 FAX: 919-845-3972

AN EQUAL OPPORTUNITY / AFFIRMATIVE ACTION EMPLOYER



Permit #:	

This Section for Local Health Department Use Only

Initial submittal received:	Date	by Initials		
G.S. 130A-335(a3) states the following:				
When an applicant for an Improvement Permit submits to a local health departry department, the common form developed by the Department, and a soil evaluated within five business days of receiving the application, conduct a completeness receiving the application, conduct a completeness receiving the includes all of the required components. If the local health department department of the components needed to complete the Improvement department to cure the deficiencies in the Improvement Permit. The local health so complete within five business days after the local health department receives act within any period set out in this subsection, the applicant may treat the failure common form for use as the Improvement Permit.	tion pursuant to subsiview of the submittal etermines that the Iment Permit. The applic department shall mathe additional inform	ection (a2) of this section, the local health department sha I. A determination of completeness means that the Improving provement Permit is incomplete, the local health department may submit additional information to the local health ake a final determination as to whether the Improvement Faction from the applicant. If the local health department faction from the applicant.	ll, ement ent Permit	
The review for completeness of this Improvement Permit was co Permit is determined to be:	onducted in acco	rdance with G.S. 130A-335(a3). This Improvem	ent	
☐ Incomplete (If box is checked, information in this section is i	required.)			
The following items are missing:				
	180	121		
Copies of this were sent to the LSS and the Applicant on	Date	○ (基) () ()		
State Authorized Agent:		Date:		
☐ Complete	6			
State Authorized Agent:		Date:		
This Improvement Permit is issued pursuant to G.S. 130A-335 (a2) and (a3) using the signed and sealed LSS/LG evaluation(s) attached here. The issuance of this permit by the Health Department in no way guarantees the issuance of other permits. The permit holder is responsible for checking with appropriate governing bodies in meeting their requirements. This permit is subject to revocation if the site plan, plat, or the intended use changes. The Improvement Permit shall not be affected by a change in ownership of the site. This permit is subject to compliance with the provisions of the Laws and Rules for Sewage Treatment and Disposal and to the conditions of this permit. The Department, the Department's authorized agents, and the local health departments shall be discharged and released from any liabilities, duties, and responsibilities imposed by statute or in common law from any claim arising out of or attributed to				
Disposal and to the conditions of this permit. The Department, the Department's authorized agents, and the any liabilities, duties, and responsibilities imposed by statute of	local health dep or in common lav	partments shall be discharged and released frow from any claim arising out of or attributed t	m	
Disposal and to the conditions of this permit. The Department, the Department's authorized agents, and the	local health dep or in common lav t or licensed geo	partments shall be discharged and released frow from any claim arising out of or attributed t	m	

See attached site sketch



Permit #:	

Re-submittal of Improvement Permit

1				\neg
	LHD USE ONLY: This IP resubmittal received:	Date	by	
		Dute	inicuis	
The following it	tems are being resubmitted pursuant to G.S. 130A-33	5(a3) for issuance	of the Improvement Permit:	
	, ST	ATT	A.	
	A THE OW	THE OF	All In	
is accurate and	hereby attest that scientist (Print Name) complete to the best of my knowledge and that the laws, regulations, rules, and ordinances.		required to be included with ment Permit meets all appli	
Signatur	re of Licensed Soil Scientist		Date	
	The section below is for Local Health Department us	se after submittal of	items noted as missing above.	
LHD Follow-u	up Completeness Review of Improvement I	Permit		
	completeness of this Improvement Permit re-submit ermit is determined to be:	tal was conducted	in accordance with G.S. 130	A-335(a3). This
☐ Incomplete	e (If box is checked, information in this section is requ	iired.)		
The following ite	ems are missing:			
	AND AND	M		
Copies of this w	rere sent to the LSS and the Applicant on			
State Authorized	d Agent:		Date:	
☐ Complete				
State Authorized	d Agent:		Date:	



Central Carolina Soil Consulting, PLLC

1900 South Main Street, Suite 110, Wake Forest, NC 27587 Office Number: 919-569-6704

> December 7, 2023 Job #4760

Elm Street Builders, LLC Attention: Chris Weir

3434 Kildaire Farm Road, Suite 240

Cary, NC 27518

RE: Preliminary soil/site evaluation for single family wastewater approval at 180 Pondhurst Lane, Lot 5 (3-bedroom) in Harnett County pursuant to and meets the requirements of G.S. 130A-335(a2)."

Dear Mr. Weir:

Central Carolina Soil Consulting, PLLC conducted a preliminary soil evaluation on the aforementioned lot to determine the areas of provisionally suitable soils that are suitable for subsurface wastewater disposal systems (conventional, Accepted & Innovative). "The LSS evaluation is being submitted pursuant to and meets the requirements of G.S. 130A-335(a2)." The soil/site evaluation was performed using auger borings and pits in August 2023, under moist soil conditions, based on the criteria found in the State Subsurface Rules, 15ANCAC 18A .1900 "Laws and Rules for Sewage Treatment and Disposal Systems". From this evaluation, CCSC laid out and located the septic layout and gps'd for site plan drawing purposes. Please note that the lot lines must be clearly marked by your surveyor prior to system installation by your installer to verify all setbacks before digging.

The lot is proposed to have a 3-bedroom system for the house. A septic system field layout was completed based on the house location and property lines surveyed in the field.

The proposed Initial system for the house is a Pressure Manifold distribution using lines 1-8 totaling 405 feet of accepted status product (EZ-Flow or Chambers). The repair system for the house is a Pressure Manifold distribution using lines 9-13 totaling 310 feet of T&J Panel Block product (Horizontal). The septic and pump tanks for the house should be minimum 1,000 gallons with risers. The septic and pump tanks should also have pressed in rubber boots on both the inlets and the outlets of the tank.

Based on the findings during the field evaluation, the area on the attached map has at least 30 inches (initial) and 41 inches (repair) of provisionally suitable soils for a modified conventional septic system. The assigned LTAR for the site is 0.25 gal/day/ft² with a maximum depth of 15 inches with 5" of additional soil cover material for the initial system installation of the drain lines due to slope correction. The assigned LTAR for the site is 0.25 gal/day/ft² with a maximum depth of 24 inches for the repair system installation of the drain lines due to slope correction.

Septic Installation:

The septic system for the lot should be installed during dry soil conditions (no rain events within 72 hours). The septic system should be installed on contour while maintaining all required setbacks. Lot lines must be clearly marked by your surveyor prior to system installation so your installer can verify all setbacks before digging.

Setbacks: (see septic design page for locations)

- Septic and Pump Tanks (see septic design)
 - o 10' minimum from property lines
 - o 5' minimum from house
- Septic Lines (see septic design)
 - o 10' minimum from property lines
 - o 5' minimum from house
- Manifold's and D-Box's (see septic design)
 - o 10' minimum from property lines
- Supply Lines (see septic design)
 - o 5' minimum from property lines

Grading:

No grading should be completed within the initial and repair septic areas that change the natural grade of the area. There should be no cutting or filling within the septic areas as well. When grading the lot, no cuts of 2' or greater should be within 15' of the septic areas. If a cut is required near the septic area, keep the cut around 6-8 inches in depth.

HOUSE:

- Initial System: Pressure Manifold Distribution, lines 1-8 totaling 405' (see layout)
- Repair System: Pressure Manifold Distribution, lines 9-13 totaling 310' (see layout)
- 360 gal/day flow rate (3-bedroom)
- 1,000 gallon septic and pump tanks with risers and pressed in rubber boots on both the inlet and outlet ends
- 15" max trench depth with 5" of additional cover material for Initial System
- 24" max trench depth for Repair System
- 0.25 LTAR for Initial
- 0.25 LTAR for Repair
- No grading/filling septic areas
- No cuts >2' within 15' of septic areas
- Keep tanks and drain lines 10' from property lines
- Keep supply line >5' property lines
- Install in dry soil conditions (No rain events within 72 hours)
- Maintain natural contours when clearing the lot

This letter discusses the location of provisionally suitable soils for subsurface wastewater disposal systems and does not guarantee the future function of any wastewater system on sites. Central Carolina Soil Consulting, PLLC is a professional consulting firm specializing in soil delineations and designs for on-site wastewater disposal systems.

If you have any questions regarding the findings on the attached map or in this report, please feel free to contact me at any time. Thank you for allowing Central Carolina Soil Consulting to perform this site evaluation for you.

1248

NORTH

OF

Sincerely,

Jason Hall

NC Licensed Soil Scientist #1248 AOWE certification number 10004E

Encl: Soil Map & septic layout

Sheet:
Property ID:
Lot #: 5
File #:

AppID:

CCSC SOIL/SITE EVALUATION for ON-SITE WASTEWATER SYSTEM

Owner: Applicant:

Address: Date Evaluated: 11/16/2023

Proposed Facility: 3-Bedrooom Design Flow (.1949) 360 gal/day Property Size:

Location of Site: 180 Pondhurst Lane (Lot 5)

Property Recorded: <u>Yes</u>

Water Supply: [X] Public [] Individual [] Well [] Spring [] Other

Evaluation Method: [] Auger Boring [x] Pit [] Cut
Type of Wastewater: [X] Sewage [] Industrial Process [] Mixed

P R O F			SOIL N	MORPHOLOGY .1941		b LE FACTO	RS		
I L E #	.1940 Landscape Position/ Slope%	Horizon Depth (IN.)	.1941 Structure/ Texture	.1941 Consistence Mineralogy	.1942 Soil Wetness/ Color	.1943 Soil Depth (IN.)	.1956 Sapro Class	.1944 Restr Horiz	Profile Class & LTAR
1	LS	AE 0-12	GR SL	VFR NS NP SEXP					PS
		Bt1 12-19	SBK SCL	FR SS SP SEXP					0.25
		Bt2 19-30	SBK C	FR SS SP SEXP					
		Bt3 30-45	W-SBK C	FI S P SEXP	10YR 7/2 @ 30"	30			
2	LS	AE 0-12	GR SL	VFR NS NP SEXP					PS
		Bt1 12-16	SBK CL	FR SS SP SEXP					0.275
		Bt2 16-48	SBK C	FR SS SP SEXP	10YR 7/2 @ 41"	41			
3	LS	AE 0-10	GR SL	VFR NS NP SEXP					PS
		Bt1 10-26	SBK C	FR SS SP SEXP					0.25
		Bt2 26-45	W-SBK C	FI S P SEXP		45			

Description	Initial System	Repair System
Available Space (.1945)	Yes	Yes
System Type(s)	III b	III b
Site LTAR	0.25	0.25

Other Factors (.1946):

Soil Evaluation By:

Others Present:

Site Classification (.1948): Provisionally Suitable

Site Evaluation By: Michael Seewald

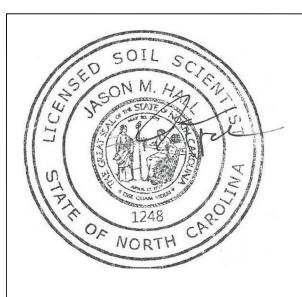
Others Present:

COMMENTS: FILE #:

Landscape Position	Group	<u>Texture</u>	.1955 LTAR	Structure
R-Ridge	1	S-Sand	1.2 - 0.8	SG-Single Grain
SS-Shoulder Slope		LS-Loamy Sand		M-Massive
LS-Linear Slope				CR-Crumb
FS-Foot Slope	II	SL-Sandy Loam	0.8 - 0.6	GR-Granular
NS-Nose Slope		L-Loam		SBK-Subangular Blocky
HS-Head Slope				ABK-Angular Blocky
CC-Concave Slope	III	SI-Silt	0.6 - 0.3	PL-Platy
CV-Convex Slope		SICL-Silty Clay		PR-Prismatic
T-Terrace		Loam		
FP-Flood Plain		CL-Clay Loam		
		SCL-Sandy Clay Loam		
	IV	SC-Sandy Clay	0.4 - 0.1	
		SIC-Silty Clay	0.1 0.1	
		C-Clay		
		C C,		

Consistence	Consistence	<u>Mineralogy</u>
<u>Moist</u>	Wet	SEXP-Slightly Expansive
VFR-Very Friable	NS-Non-Sticky	EXP-Expansive
FR-Friable	SS-Slightly Sticky	
FI-Firm	S-Sticky	
VFI-Very Firm	VS-Very Sticky	
EFI-Extremely Firm	NP-Non-Plastic	
	SP-Slightly Plastic	
	P-Plastic	
	VP-Very Plastic	

Sketch of Soil Evaluation Locations

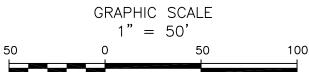


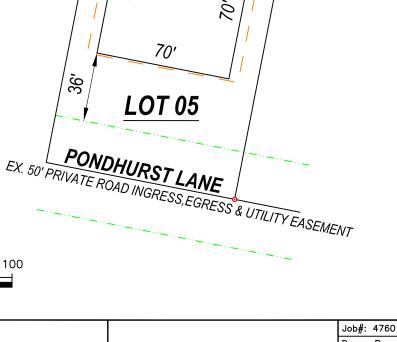
- *Keep tanks and drain lines 10' from property lines.
- *Not a survey.
- *Not a guarantee of a septic permit.
- *Keep supply lines >5' from property lines.
- *Some lines are flagged longer in the field than lengths indicate.
- *No grading septic area.
- *No adding soil within septic area
- *No rutting—up septic area
- *No cuts of >2' within 15' of septic areas





- ~8,600ft²
- 0.25 soil LTAR for Initial
- 0.25 soil LTAR for Repair
- 3-bedroom: Accepted Status Product Primary and PPBPS Repair





70'

9



Central Carolina Soil Consulting, PLLC 1900 South Main Street, Suite 110 Wake Forest, North Carolina 27587 Phone (919)569-6704 Fax (919)569-6703

Soils Map Lot 5, 180 Pondhurst Lane Harnett County, North Carolina Drawn By: JR

Date: 12/05/2023

Revision:

64.9

133.6'

193.6'

12.1

32.8